

**Work Order ID 79587****\*79587\***

Page 1

January-27-12 3:29:32 PM

Item ID: D6101-003

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Saddle Billet, 7075

Start Date: 27/01/2012 Start Qty: 80.00

**\*80\***

Cust Item ID:

Required Date: 10/02/2012 Req'd Qty: 80.00

**\*80\***

Customer:

Reference:

Approvals:

Process Plan: M.C. JDate: 12/01/27 Tooling:

Date:

Run Start **\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D6101

Rev B

100

0.00

**\*100\***

PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 16017

a) Description: Aluminum billet

b) 7.875" x 6.250" x 2.00" thick

c) Tolerance on all dimensions are +0.030"/-0.000"

d) Grain direction along 7.875" length

e) Material: 7075-T7351 (QQ-A-250/12)

f) Material certification required

12-01-30  
(80)

110

0.00

**\*110\***

Receive &amp; Inspect for Damage &amp; Mat'l Certs

Packaging

Memo

0.00

Packaging

Ensure material certification is attached

12/2/12 (80)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 79587****\*79587\***

Page 2

January-27-12 3:29:32 PM

Item ID: D6101-003 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Saddle Billet, 7075  
Start Date: 27/01/2012 Start Qty: 80.00 **\*80\*** Cust Item ID:  
Required Date: 10/02/2012 Req'd Qty: 80.00 **\*80\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC6- Inspect dimensions to drawing  Memo Ensure Material certification comply to Dwg D6101	0.00  0.00	<i>mk 12/02/14</i>			<u>80</u>	<u>0</u>		
130 <b>*130*</b> Packaging Packaging	Identify as per dwg & Stock Location: <u>MAT 41</u>  Memo	0.00  0.00	<i>mk 12/02/14</i>			<u>80</u>	<u>0</u>		
140 <b>*140*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00				<i>[Signature]</i>	<u>M.L.J</u>	<u>12/02/15</u>	

*M.L.J 12/02/15*  
**80**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

January-27-12 3:29:36 PM

Page 1

Work Order ID: 79587

\*79587\*

Parent Item: D6101-003

\*D6101-003\*

Parent Item Name: Saddle Billet, 7075


Start Date: 27/01/2012

Required Date: 10/02/2012

Start Qty: 80.00

Required Qty: 80.00

Comments: IPP A: 01.05.04New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-003P		Purchased	No			110	Each	0.0000	1	80			
*D6101-003P*									**				
7075-T7351 2X6.25X7.875													

44/2/12 @ 80

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

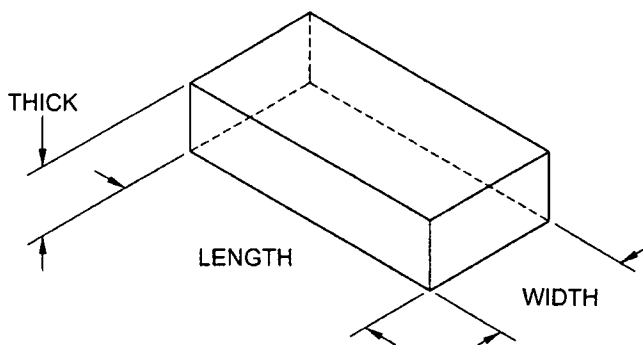
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# SPECIFICATION CONTROL DRAWING



SHOW COPY  
 RETURN TO  
 ENGINEERING  
 UNCONTROLLED COPY  
 SUBJECT TO AMENDMENT  
 WITHOUT NOTICE  
 WORK CENTER  
 NO. 79587 M.C.J  
12/01/29

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN.

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

**B** ACCEPTABLE SPECIFICATIONS FOR 7075-T7351 ALUMINUM ARE AMS-QQ-A-250/12, QQ-A-250/12, OR ASTM B209

Part No.	Alloy	Length	Width	Thick	Grain Direction
D6101-001	7075-T7351 (QQ-A-250/12)	6.000	6.250	2.000	Along 6.000 Length
D6101-003	7075-T7351 (QQ-A-250/12)	7.875	6.250	2.000	Along 7.875 Length
D6101-005	7075-T7351 (QQ-A-250/12)	5.000	8.250	2.500	Along 5.000 Length
D6101-007	7075-T7351 (QQ-A-250/12)	7.750	8.250	2.500	Along 7.750 Length
D6101-009	7075-T7351 (QQ-A-250/12)	8.700	8.250	2.500	Along 8.700 Length
D6101-011	7075-T7351 (QQ-A-250/12)	9.700	8.250	2.500	Along 9.700 Length
D6101-013	7075-T7351 (QQ-A-250/12)	10.100	8.250	2.500	Along 10.10 Length
D6101-015	7075-T7351 (QQ-A-250/12)	9.450	6.250	2.500	Along 9.450 Length
D6101-017	7075-T7351 (QQ-A-250/12)	6.350	6.250	2.250	Along 6.350 Length

RELEASED

09/07/15/WB

B	ADDED D6101-015/-017, ADD ASTM B209	RF	09.04.23
A	NEW ISSUE	CP	01.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D6101	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SADDLE BILLET, 7075	NTS
DATE	09.04.23	COPYRIGHT © 2001 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16017**

Purchase Order Date 1/30/2012

PO Print Date 1/30/2012

Page Number 2 of 2

Order From :  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100  
TORONTO, ON M4Y 3A5  
CA

VC-MET001

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

514 694 9575

514 695 3281

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Brigitte Golden

10127-2607

Net 30

CAD

Destination-Collect

3	D6101-005P	7075-T7351 8.25X5.0X2.5	2/10/2012 Yes	50.00 Each	Yours ppd <i>1/4/10</i>	\$61.0000	\$3,050.00
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**Special Inst:**

AS PER DWG D6101 REV. B  
B79588  
MATERIAL: 7075-T7351 AS PER QQ-A-  
250/12  
SIZE: 5.00" X 8.250" X 2.50" THICK  
GRAIN DIRECTION ALONG 5.00"  
LENGTH  
TOLERANCE ON ALL DIMENSION ARE  
+0.030"/-0.000'

4

D6101-007P

7075-T7351  
8.25X7.75X2.5

2/10/2012

Yes

50.00

Each

Yours ppd

\$79.2500

\$3,962.50

**Special Inst:**

AS PER DWG D6101 REV. B  
B79589  
MATERIAL: 7075-T7351 AS PER QQ-A-  
250/12  
SIZE: 7.750" X 8.250" X 2.50" THICK  
GRAIN DIRECTION ALONG 7.750"  
LENGTH  
TOLERANCE ON ALL DIMENSION ARE  
+0.030"/-0.000'

PO Total:

\$15,353.30

Change Nbr:

1

Change Date: 1/30/2012

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

**Castle Metals®****COPIE**

A. M. Castle &amp; Co.

**BORDEREAU DE MARCHANDISES**

Page 1 of 1

No de Formulaire d'Emballage / Pack Slip No:929062

Expédié de / Ship From:		Vendu à / Sold To:		Expédié à / Ship To:		Livré à / Deliver To:		
A. M. Castle & Co. Wichita East 3050 S Hydraulic Wichita, KS 67216		A. M. Castle & Co. (Canada) Inc. DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		WILL CALL-MONTREAL 835 SELKIRK AVENUE POINTE CLAIRE, QC H9R 3S2 CA		A. M. Castle & Co. (Canada) Inc. WILL CALL-MONTREAL 835 SELKIRK AVENUE POINTE CLAIRE, QC H9R 3S2 CA		
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms		Transporteur / Carrier		No du Bon de connaissance / BOL No		N° de livraison / Delivery No
07-FEB-2012	ORIGIN	Prepaid		CASTLE_NETWORK K		934179		117335949

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch -
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N° de commande / Order No	N° de ligne Line No	N° d'article / Item No	Description
1975270	1	752237.MO	2.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 6.25 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 7.875")) X 7.875 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 7.875")) - ALUMINUM PLATE SAW SPECIFICATIONS: QQ-A-250/12
N° de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
16017	YOUR ITEM NUMBER: D6101-003	80.00 PCS	80 PCS

Détails / Details						
Usine / Mill	No de coulee / Heat Number	Code mec / Mech Id	Pièces / PCS	Largeur (Pouce)/ Width (IN)	Longueur (Pouce)/ Length (IN)	Qté expédiée / Shipped Qty (LBS)
	213721		52			528.36
	213721		28			284.5

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par  
Reviewed by Authorized Castle Metals Representative:

Date:

Name:

10 February 2012 14:15:52 PM



A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216



A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523

# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 1 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM <b>135513</b>				Constellium ORDER NO. <b>050-981421</b>		<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY <b>7075</b>	CLAD. <b>00</b>	TEMPER <b>T7351</b>	GAUGE <b>2.00000</b>	WIDTH <b>48.500</b>	LENGTH <b>144.500</b>	
ITEM ORDERED <b>DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL</b>						
CUSTOMER SPECIFICATION <b>AMS-QQ-A-250/12</b>						
PART NUMBER <b>752237</b>		B/L NUMBER <b>103600</b>		DATE SHIPPED <b>01/05/12</b>		
WEIGHT SHIPPED <b>12,865</b>		NO. OF PIECES <b>9</b>		GOVT. CONTRACT NO.		

12,865			9			V			COND % IACS										
LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN	MAX									
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.											
213721	LT	2	***** T7351 72.8	73.0	62.2	62.3	12.0	12.0	40.1	40.2									
All material contained in lot 213721 was cast and manufactured in the USA.																			
213731	LT	2	73.1	73.2	62.3	62.5	12.0	12.0	40.6	40.8									
All material contained in lot 213731 was cast and manufactured in the USA.																			
213751	LT	2	73.8	74.2	63.3	63.7	11.5	11.5	39.7	39.9									
All material contained in lot 213751 was cast and manufactured in the USA.																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
GAMPS 9101 100% SONIC MINUS DEAD ZONE CLASS A																			
AMS4078G,ASTM-B209-10,MMS159P,CMMP025;AMC CA-15413A R																			
CHEM COM P	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTL MAX.		
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS

67216

A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL

60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 2 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM <b>135513</b>				Constellium ORDER NO. <b>050-981421</b>	
ALLOY <b>7075</b>	CLAD. <b>00</b>	TEMPER <b>T7351</b>	GAUGE <b>2.00000</b>	WIDTH <b>48.500</b>	LENGTH <b>144.500</b>
ITEM ORDERED <b>DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL</b>					
CUSTOMER SPECIFICATION <b>AMS-QQ-A-250/12</b>					
PART NUMBER <b>752237</b>		B/L NUMBER <b>103600</b>		DATE SHIPPED <b>01/05/12</b>	
WEIGHT SHIPPED <b>12,865</b>		NO. OF PIECES <b>9</b>		GOVT. CONTRACT NO.	

**CERTIFICATION**

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South, Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER		TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS			
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
				AMS STD 2154, PS21211L, ASTM B594, BSS 7055									





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216

A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 3 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 135513				Constellium ORDER NO. 050-981421	
ALLOY 7075	CLAD. 00	TEMPER T7351	GAUGE 2.00000	WIDTH 48.500	LENGTH 144.500
ITEM ORDERED DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER 752237		B/L NUMBER 103600		DATE SHIPPED 01/05/12	
WEIGHT SHIPPED 12,865		NO. OF PIECES 9		GOVT. CONTRACT NO.	
<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager					

12,865		9								COND % IACS	
LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN	MAX	
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.			
ACTUAL CHEMICAL COMPOSITION											
213721	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.14 ZN= 5.61	CU= 1.38 TI= 0.02	MN= 0.04 ZR= 0.01	MG= 2.60					
213731	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.14 ZN= 5.61	CU= 1.38 TI= 0.02	MN= 0.04 ZR= 0.01	MG= 2.60					
213751	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.15 ZN= 5.52	CU= 1.43 TI= 0.03	MN= 0.05 ZR= 0.01	MG= 2.63					
OTHERS TOTAL: .15 MAX. AL REMAINDER											
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# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS

A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL

67216

60523

A M CASTLE 103601 4776

INCLUSION SERIAL#: 20120103103601 PAGE 4 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 135513				Constellium ORDER NO. 050-981421		<b>CERTIFICATION</b>  "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY 7075	CLAD. 00	TEMPER T7351	GAUGE 2.00000	WIDTH 48.500	LENGTH 144.500	
ITEM ORDERED DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL						
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						
PART NUMBER 752237		BL NUMBER 103600		DATE SHIPPED 01/05/12		
WEIGHT SHIPPED 12,865		NO. OF PIECES 9		GOVT. CONTRACT NO.		

COND % LACS

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN		MAX								
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.							
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			

